STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:

Source:

Date Processed by STIC: 05/11/206

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE <u>CHECKER</u> <u>VERSION 4.4.0 PROGRAM</u>, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail. Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

- 1. EFS-Bio (http://www.uspto.gov/ebc/efs/downloads/documents.htm, EFS Submission User Manual ePAVE)
- 2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
- 3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):
 U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/10/06

Raw Sequence Listing Error Summary

RROR DETECTED	SUGGESTED CORRECTION SERIAL NUMBER: 10/577, 775
TTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE	
1Wrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
2Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.
3Misaligned Amino Numbering	The numbering under each 5 th amino acid is misaligned. Do not use tab codes between numbers; use space characters , instead.
4Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
5Variable Length	Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
6PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
7Skipped Sequences (OLD RULES)	Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
8Skipped Sequences (NEW RULES)	Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000
9Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
0Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence. (see item 11 below)
Use of <220>	Sequence(s)missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section or use "chemically synthesized" as explanation. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32), also Sec. 1.823 of Sequence Rules
2PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
3 Misuse of n/Xaa	"n" can only represent a single <u>nucleotide</u> ; "Xaa" can only represent a single <u>amino acid</u>



IFWP

DATE: 05/11/2006 RAW SEQUENCE LISTING PATENT APPLICATION: US/10/577,775 TIME: 11:21:12 Input Set : A:\Sequence Listing.txt Output Set: N:\CRF4\05112006\J577775.raw 3 <110> APPLICANT: KIM, TAE-YOON BIO CLUE & SOLUTION CO., LT 6 <120> TITLE OF INVENTION: EC SOD and Cell transducing EC SOD and use thereof C--> 8 <140> CURRENT APPLICATION NUMBER: US/10/577,775 C--> 8 <141> CURRENT FILING DATE: 2006-04-28 W--> 0 <130> FILE REFERENCE: Does Not Comply 8 <150> PRIOR APPLICATION NUMBER: KR10-2003-0076629 Corrected Diskette Needed 9 <151> PRIOR FILING DATE: 2003-10-31 11 <160> NUMBER OF SEQ ID NOS: 33 13 <170> SOFTWARE: KopatentIn 1.71 Source of Jentes

Trp Ser Gln Pro Lys See Glore

Ala Glu Pro Asn Ser

Jentes

Lys Val Thr Glu Ile

Lys Cheet

Lys Cheet

Sheet

Ala Gln Pro

Ala Gln **ERRORED SEQUENCES** > 2430K 479 <210> SEQ ID NO: 22 480 <211> LENGTH: (243) 481 <212> TYPE: PRT 482 <213> ORGANISM: Artificial Sequence 484 <220> FEATURE: 485 <223> OTHER INFORMATION PEP1-EC SOD 488 <400> SEOUENCE: 22 489 Lys Glu Thr Trp Glu Thr Trp Trp Thr Glu Trp Ser Gln Pro Lys 1265 E--> 490 122 12510 491 Lys Lys Arg Lys Val Trp Thr Gly Glu Asp Ser Ala Glu Pro Asn Ser 14625 493 Asp Ser Ala Glu Trp Ile Arg Asp Met Tyr Ala Lys Val Thr Glu Ile 1565 E--> 494 15840 495 Trp Gln Glu Val Met Gln Arg Arg Asp Asp Asp Gly Thr Leu His Ala 496 17150 17655 18160 497 Ala Cys Gln Val Gln Pro Ser Ala Thr Leu Asp Ala Ala Gln Pro Arg E--> 496 E--> 498 186 65 19170 19875 499 Val Thr Gly Val Val Leu Phe Arg Gln Leu Ala Pro Arg Ala Lys Leu 24190 20685 501 Asp Ala Phe Phe Ala Leu Glu Gly Phe Pro Thr Glu Pro Asn Ser Ser 32/100 502 221/00 226/0/ 231/02 503 Ser Arg Ala Ile His Val His Gln Phe Gly Asp Leu Ser Gln Gly Cys 285/02 E--> 502 241/15 246/20 E--> 504 505 Glu Ser Thr Gly Pro His Tyr Asn Pro Leu Ala Val Pro His Pro Gln 506 251/25 256/30 261/35 507 His Pro Gly Asp Phe Gly Asn Phe Ala Val Arg Asp Gly Ser Leu Trp 508 266/40 274/45 276/50 509 Arg Tyr Arg Ala Gly Leu Ala Ala Ser Leu Ala Gly Pro His Ser E--> 508 286/40 E--> 510

RAW SEQUENCE LISTING DATE: 05/11/2006
PATENT APPLICATION: US/10/577,775 TIME: 11:21:12

Input Set : A:\Sequence Listing.txt
Output Set: N:\CRF4\05112006\J577775.raw

511 Val Gly Arg Ala Val Val His Ala Gly Glu Asp Asp Leu Gly Arg 512 201 /75 206 /80 241 /85 E--> 512 513 Gly Gly Asn_Gln Ala Ser Val Glu Asn Gly Asn Ala Gly Arg Arg Leu 32/200 326205 216 190 515 Ala Cys Cys Val Val Gly Val Cys Gly Pro Gly Leu Trp Glu Arg Gln 25/210 336/215 250 517 Ala Arg Glu His Ser Glu Arg Lys Lys Arg Arg Arg Glu Ser Glu Cys E--> 518 246 22 351 227 3567 7. 364 256/235 519 Lys Ala Ala 523 <210> SEQ ID NO: 23 524 <211> LENGTH: 230 525 <212> TYPE: PRT 526 <213 > ORGANISM: Artificial Sequence 528 <220> FEATURE: 529 <223> OTHER INFORMATION: PEP1-deltaHD/EC SOD 532 <400> SEQUENCE: 23 533 Lys Glu Thr Trp Trp Glu Thr Trp Trp Thr Glu Trp Ser Gln Pro Lys E--> 534 (123) | (127) 5 (32)/0 (137*//*5 535 Lys Lys Arg Lys Val Trp Thr Gly Glu Asp Ser Ala Glu Pro Asn Ser 147 537 Asp Ser Ala Glu Trp Ile Arg Asp Met Tyr Ala Lys Val Thr Glu Ile 157 162 539 Trp Gln Glu Val Met Gln Arg Arg Asp Asp Gly Thr Leu His Ala 177 172 541 Ala Cys Gln Val Gln Pro Ser Ala Thr Leu Asp Ala Ala Gln Pro Arg 197 192 E--> 542 187 543 Val Thr Gly Val Val Leu Phe Arg Gln Leu Ala Pro Arg Ala Lys Leu 207 545 Asp Ala Phe Phe Ala Leu Glu Gly Phe Pro Thr Glu Pro Asn Ser Ser 227 E--> 546 222 547 Ser Arq Ala Ile His Val His Gln Phe Gly Asp Leu Ser Gln Gly Cys E--> 548 237 242 550 Glu Ser Thr Gly Pro His Tyr Asn Pro Leu Ala Val Pro His Pro Gln 257 262 252 552 His Pro Gly Asp Phe Gly Asn Phe Ala Val Arg Asp Gly Ser Leu Trp 277 E--> 553 267 272 554 Arg Tyr Arg Ala Gly Leu Ala Ala Ser Leu Ala Gly Pro His Ser Ile 292 287 556 Val Gly Arg Ala Val Val His Ala Gly Glu Asp Asp Leu Gly Arg E--> 557 302 307 558 Gly Gly Asn Gln Ala Ser Val Glu Asn Gly Asn Ala Gly Arg Arg Leu 317 322 560 Ala Cys Cys Val Val Gly Val Cys Gly Pro Gly Leu Trp Glu Arg Gln E--> 561 332 337 562 Ala Arg Glu His Ser Glu E--> 563 347 706 <210> SEQ ID NO: 33 707 <211> LENGTH: 20 708 <212> TYPE: DNA

gwalid heid Omino heid Numberia RAW SEQUENCE LISTING

DATE: 05/11/2006

PATENT APPLICATION: US/10/577,775

TIME: 11:21:12

Input Set : A:\Sequence Listing.txt

Output Set: N:\CRF4\05112006\J577775.raw

709 <213> ORGANISM: Artificial Sequence

> delete

711 <220> FEATURE:

712 <223> OTHER INFORMATION: primer

715 <400> SEQUENCE: 33

716 tccaccaccc tgttgctgta
E--> 722 2

20

VERIFICATION SUMMARY DATE: 05/11/2006
PATENT APPLICATION: US/10/577,775 TIME: 11:21:13

Input Set : A:\Sequence Listing.txt
Output Set: N:\CRF4\05112006\J577775.raw

L:8 M:270 C: Current Application Number differs, Replaced Current Application No L:8 M:271 C: Current Filing Date differs, Replaced Current Filing Date L:0 M:201 W: Mandatory field data missing, <130> FILE REFERENCE L:490 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:22 L:492 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:22 L:494 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:22 L:496 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:22 L:498 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:22 L:500 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:22 L:502 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:22 L:504 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:22 L:506 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:22 L:508 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:22 L:510 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:22 L:512 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:22 L:514 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:22 L:516 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:22 L:518 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:22 L:534 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:23 L:536 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:23 L:538 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:23 L:540 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:23 L:542 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:23 L:544 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:23 L:546 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:23 L:548 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:23 L:551 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:23 L:553 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:23 L:555 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:23 L:557 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:23 L:559 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:23 L:561 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:23 L:563 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:23 L:722 M:254 E: No. of Bases conflict, this line has no nucleotides.